

Установка и настройка репликации
для MySQL сервера



Microinvest

2018

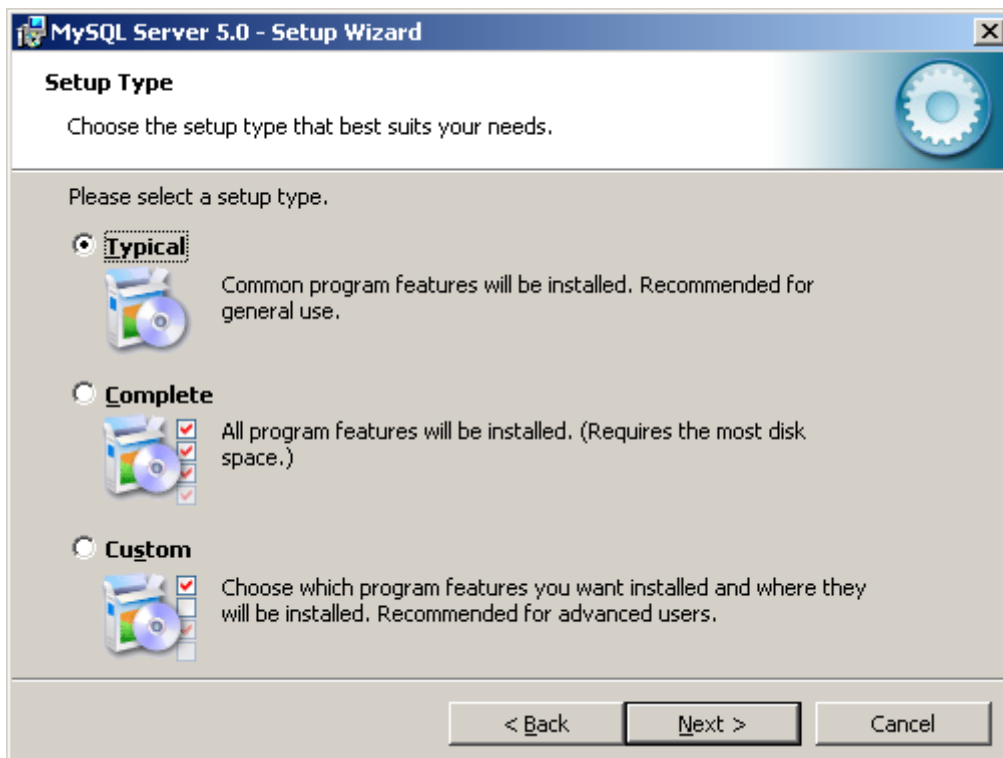
СОДЕРЖАНИЕ

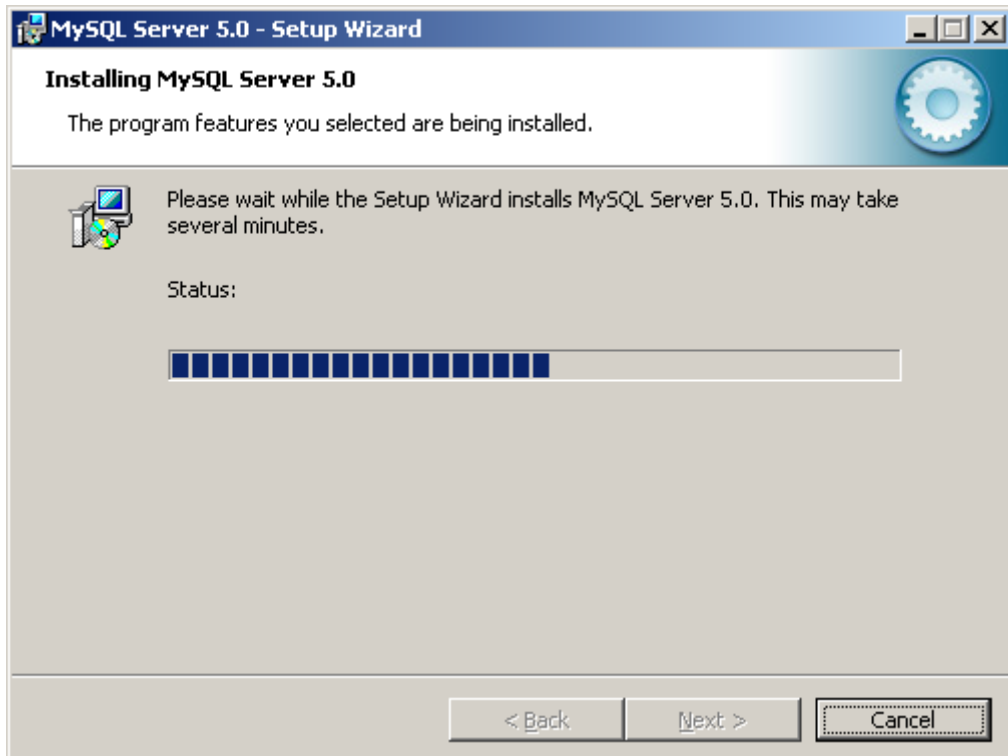
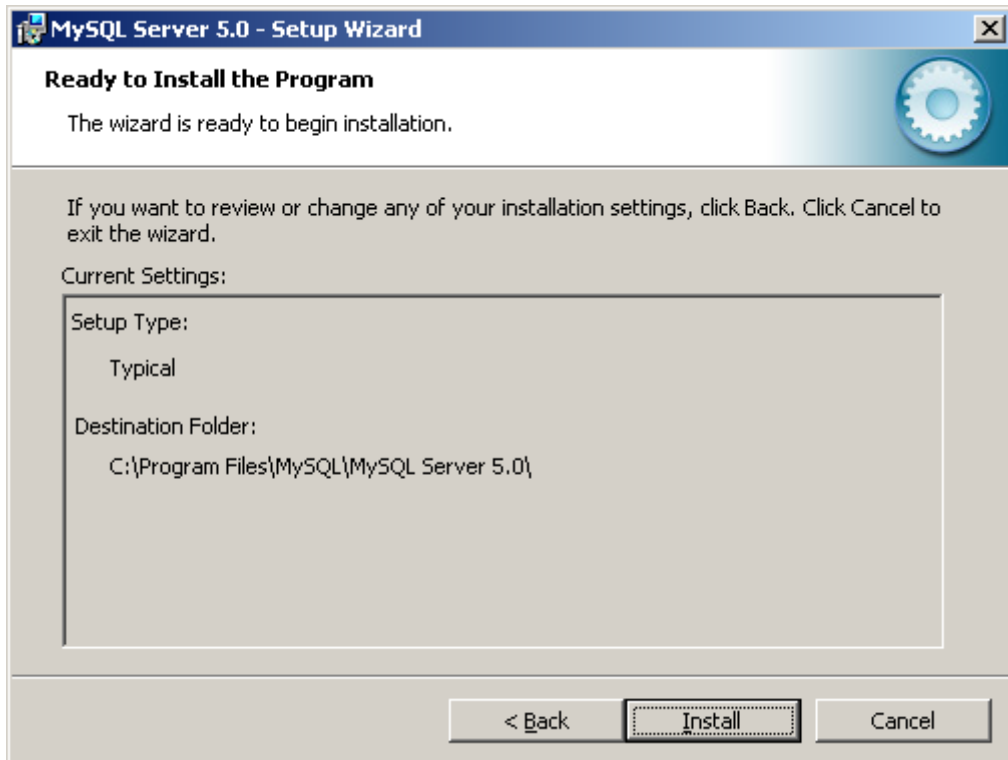
Установка.....	3
Настройка Master сервера:	16
Настройка Slave серверов:	18
Примечания читателя.....	20

Установка

1. Устанавливаются:

- mysql-essential-5.0 (или текущая версия с диска);





MySQL.com Sign Up - Setup Wizard

MySQL.com Sign-Up
Login or create a new MySQL.com account.

Please log in or select the option to create a new account.

Create a new free MySQL.com account
If you do not yet have a MySQL.com account, select this option and complete the following three steps.

Login to MySQL.com
Select this option if you already have a MySQL.com account. Please specify your login information below.

Email address:

Password:

Skip Sign-Up


Next > Cancel

MySQL Server 5.0 - Setup Wizard

Wizard Completed

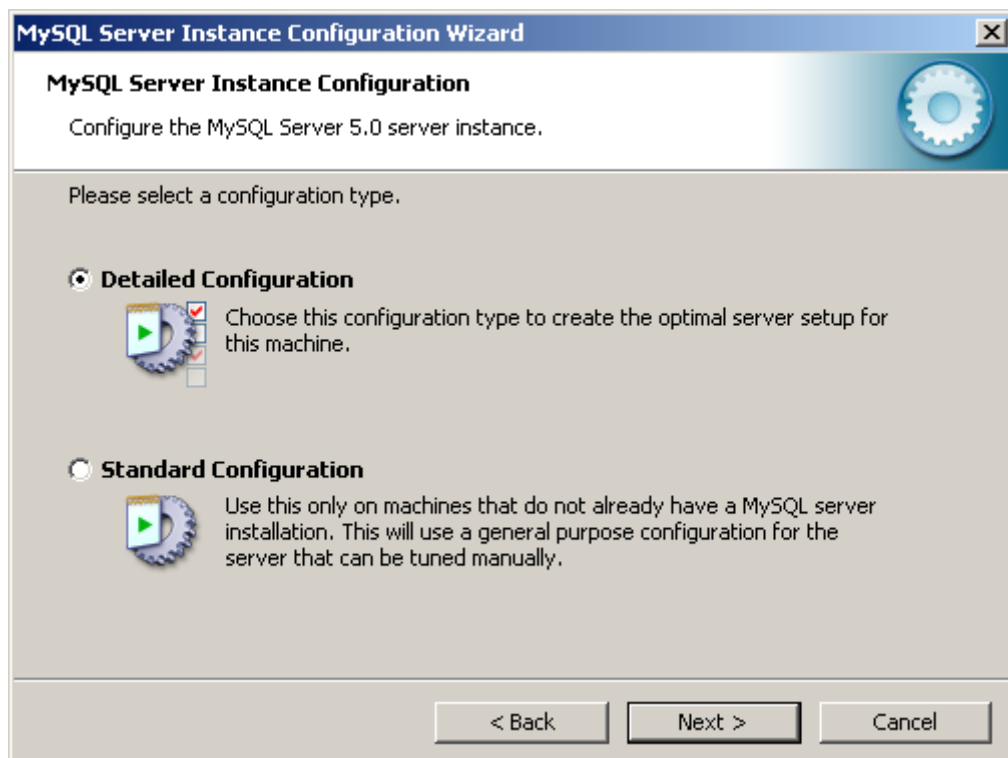
Setup has finished installing MySQL Server 5.0. Click Finish to exit the wizard.

Configure the MySQL Server now
Use this option to generate an optimized MySQL config file, setup a Windows service running on a dedicated port and to set the password for the root account.



< Back Finish Cancel

- MySQL Server Instance Configuration Wizard






MySQL Server Instance Configuration Wizard

MySQL Server Instance Configuration

Configure the MySQL Server 5.0 server instance.

Please select a server type. This will influence memory, disk and CPU usage.

- Developer Machine**
 This is a development machine, and many other applications will be run on it. MySQL Server should only use a minimal amount of memory.
- Server Machine**
 Several server applications will be running on this machine. Choose this option for web/application servers. MySQL will have medium memory usage.
- Dedicated MySQL Server Machine**
 This machine is dedicated to run the MySQL Database Server. No other servers, such as a web or mail server, will be run. MySQL will utilize up to all available memory.



< Back Next > Cancel

MySQL Server Instance Configuration Wizard

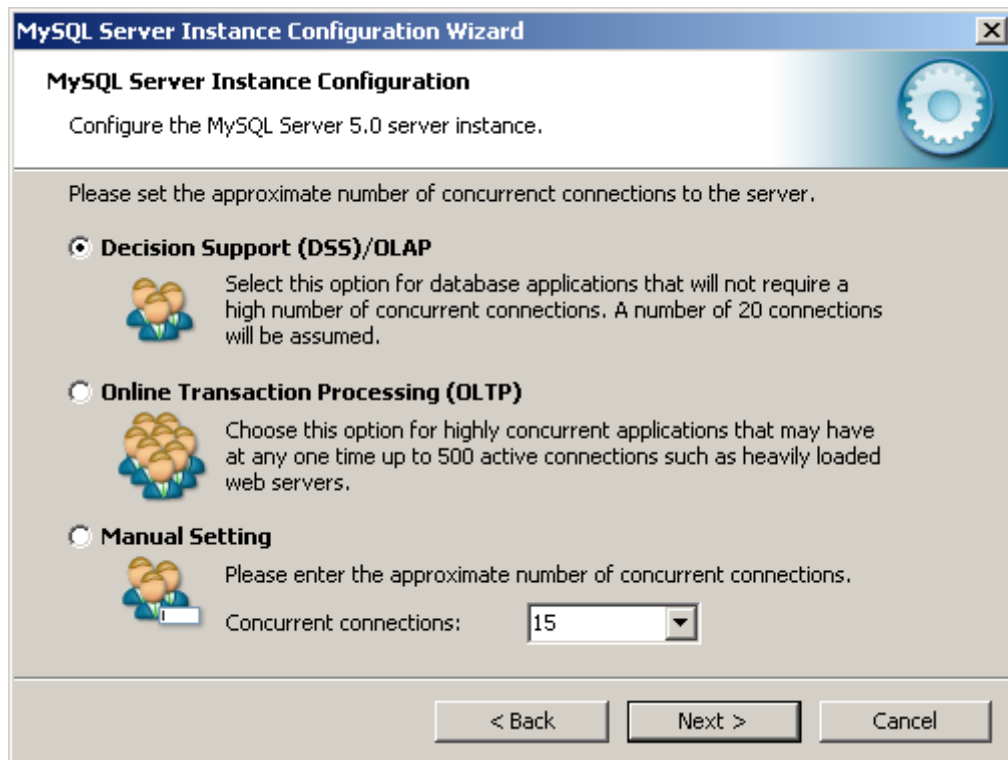
MySQL Server Instance Configuration

Configure the MySQL Server 5.0 server instance.

Please select the database usage.

- Multifunctional Database**
 General purpose databases. This will optimize the server for the use of the fast transactional InnoDB storage engine and the high speed MyISAM storage engine.
- Transactional Database Only**
 Optimized for application servers and transactional web applications. This will make InnoDB the main storage engine. Note that the MyISAM engine can still be used.
- Non-Transactional Database Only**
 Suited for simple web applications, monitoring or logging applications as well as analysis programs. Only the non-transactional MyISAM storage engine will be activated.

< Back Next > Cancel




MySQL Server Instance Configuration Wizard

MySQL Server Instance Configuration
Configure the MySQL Server 5.0 server instance.

Please set the networking options.

Enable TCP/IP Networking

 Enable this to allow TCP/IP connections. When disabled, only local connections through named pipes are allowed.

Port Number:

Please set the server SQL mode.

Enable Strict Mode

This option forces the server to behave more like a traditional database server. It is recommended to enable this option.


< Back Next > Cancel

MySQL Server Instance Configuration Wizard


MySQL Server Instance Configuration
Configure the MySQL Server 5.0 server instance.

Please select the default character set.


Standard Character Set

 Makes Latin1 the default charset. This character set is suited for English and other West European languages.

Best Support For Multilingualism

 Make UTF8 the default character set. This is the recommended character set for storing text in many different languages.

Manual Selected Default Character Set / Collation

 Please specify the character set to use.

Character Set:

< Back Next > Cancel

MySQL Server Instance Configuration Wizard

MySQL Server Instance Configuration
Configure the MySQL Server 5.0 server instance.

Please set the Windows options.

Install As Windows Service
 This is the recommended way to run the MySQL server on Windows.

Service Name:

Launch the MySQL Server automatically

Include Bin Directory in Windows PATH
 Check this option to include the directory containing the server / client executables in the Windows PATH variable so they can be called from the command line.

< Back Next > Cancel

MySQL Server Instance Configuration Wizard

MySQL Server Instance Configuration
Configure the MySQL Server 5.0 server instance.

Please set the security options.

Modify Security Settings

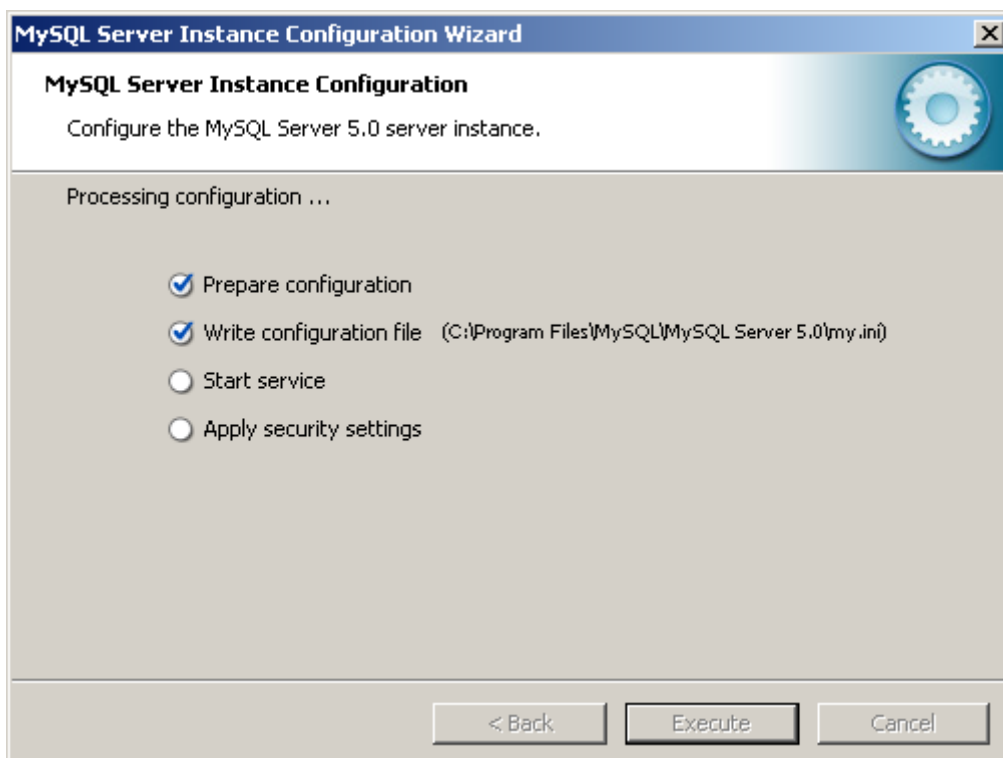
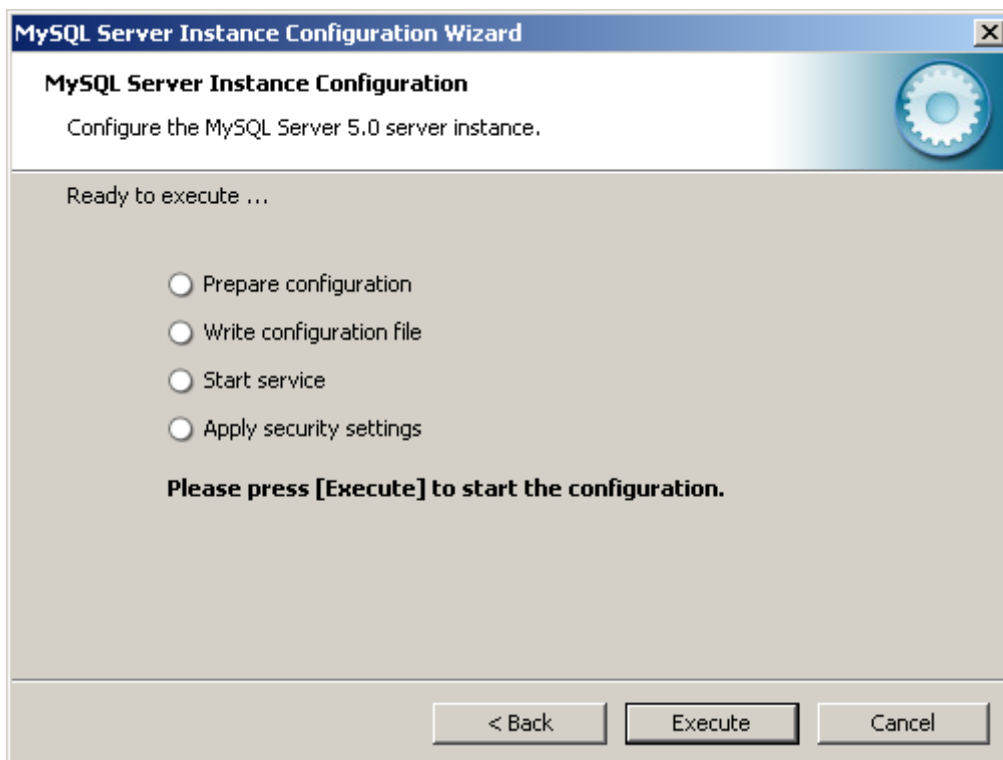
 New root password: Enter the root password.

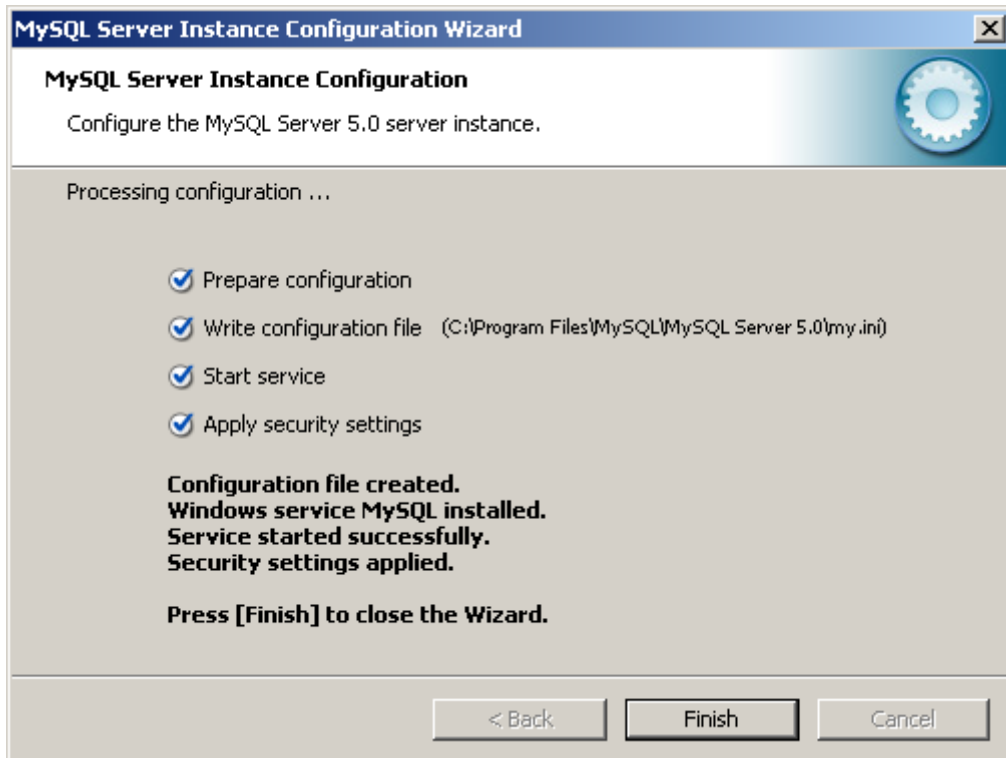
Confirm: Retype the password.

Enable root access from remote machines

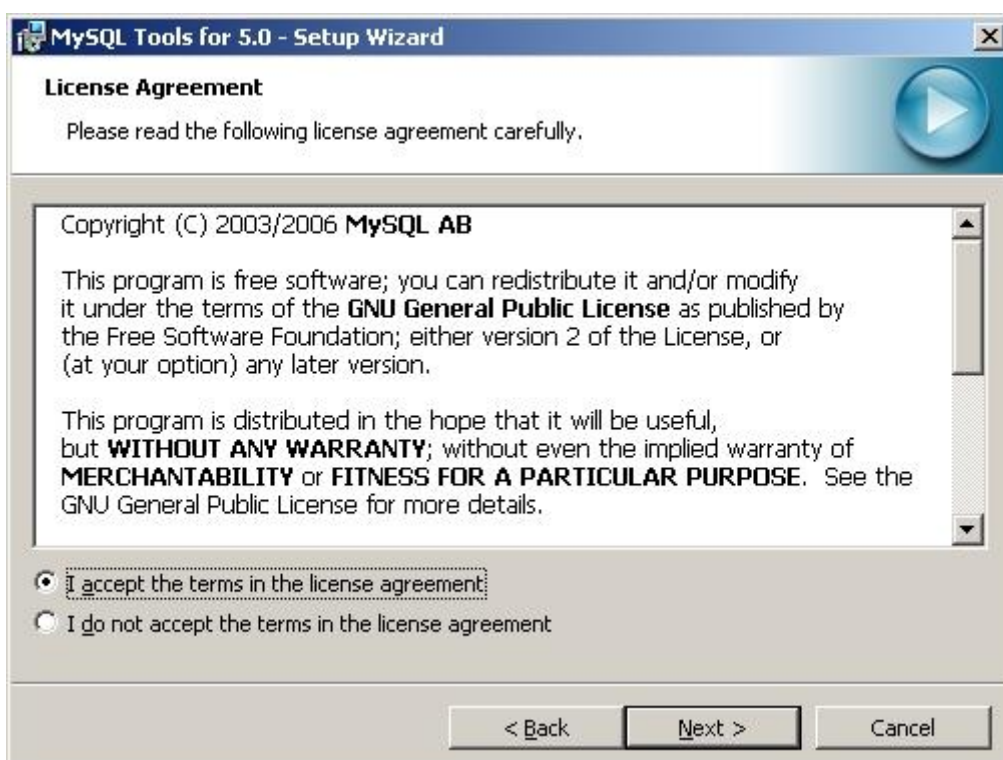
Create An Anonymous Account
 This option will create an anonymous account on this server. Please note that this can lead to an insecure system.

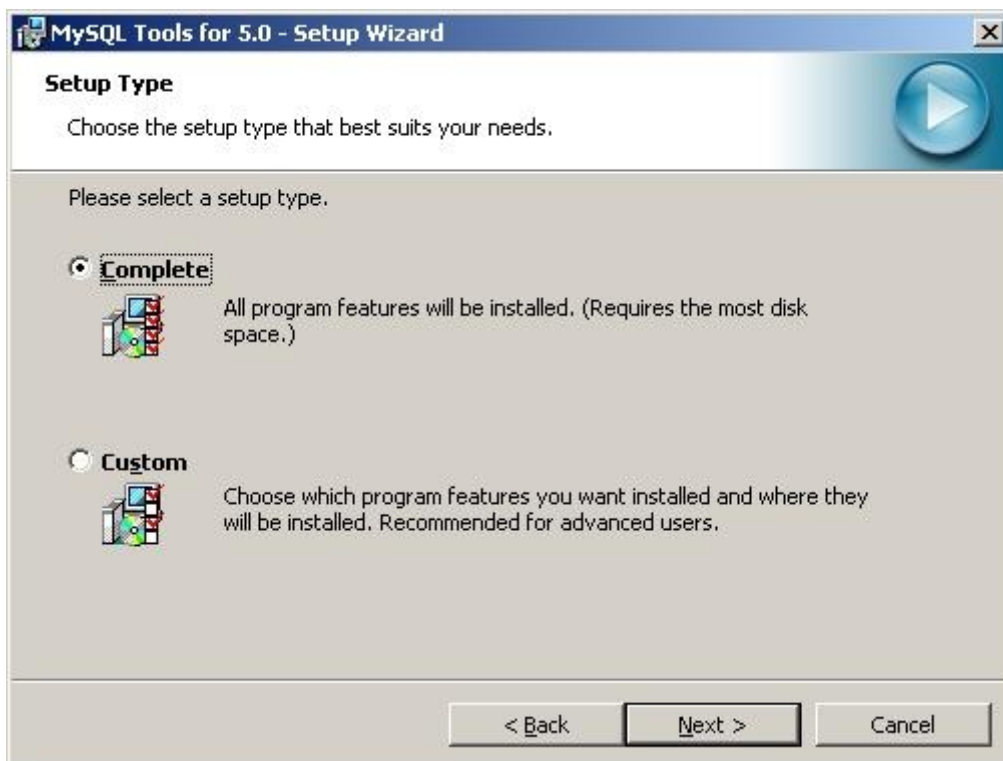
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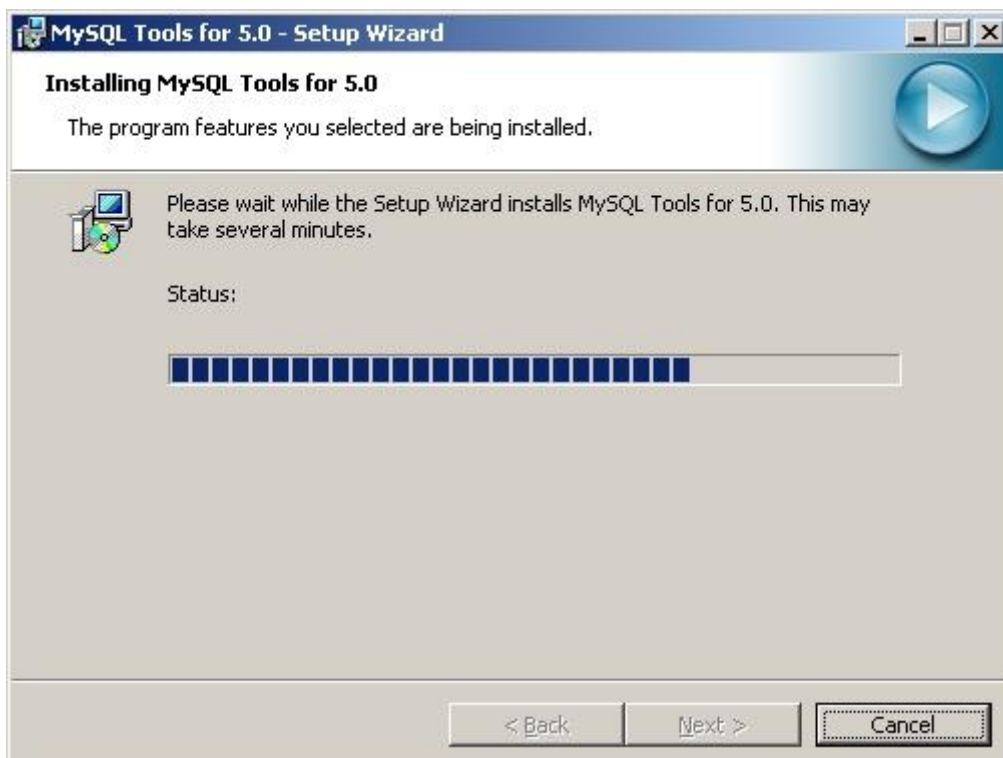
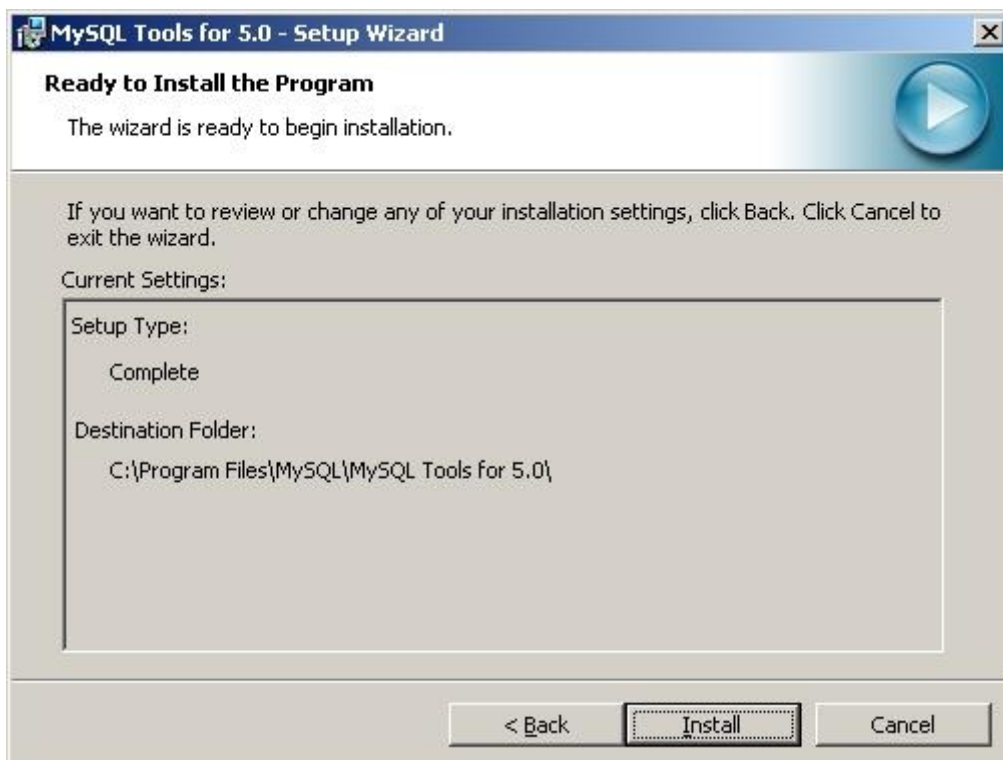




- MySQL Tools:









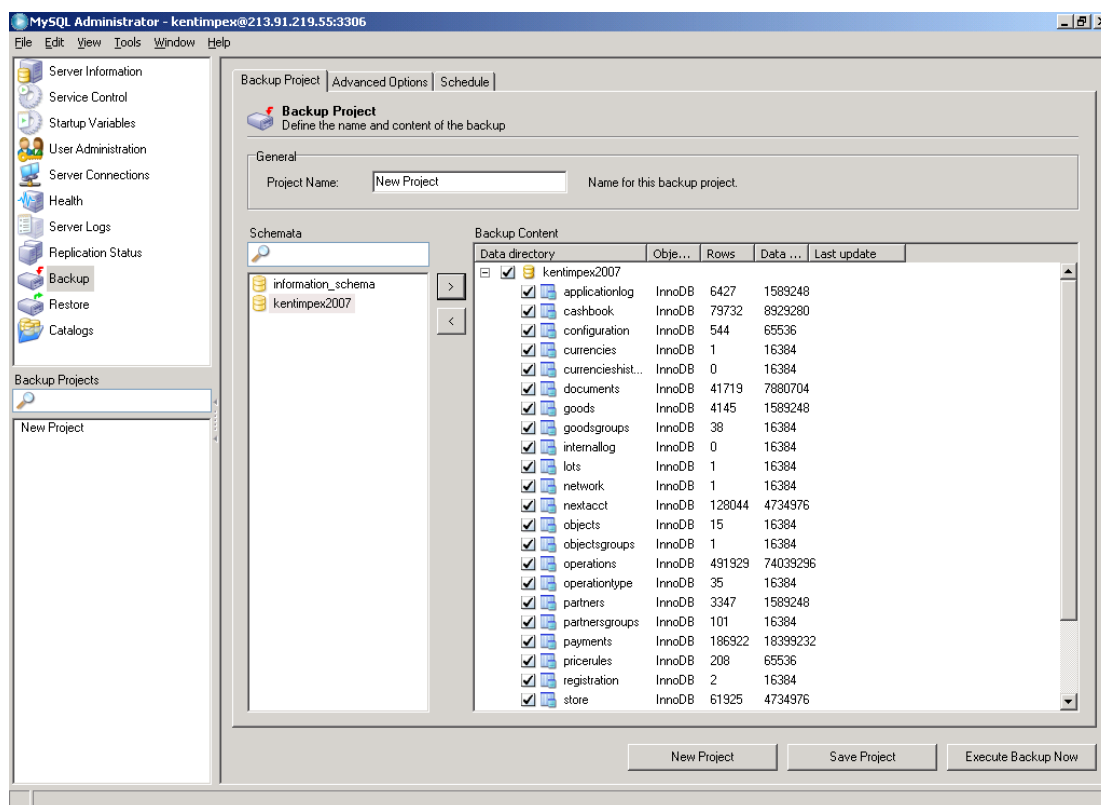
2. Настроить Windows Firewall, добавив(открыв) в разделе Exceptions порт 3306. (Проверить видимость этого порта и при необходимости открыть их у интернет-провайдера).

Настройка Master сервера:

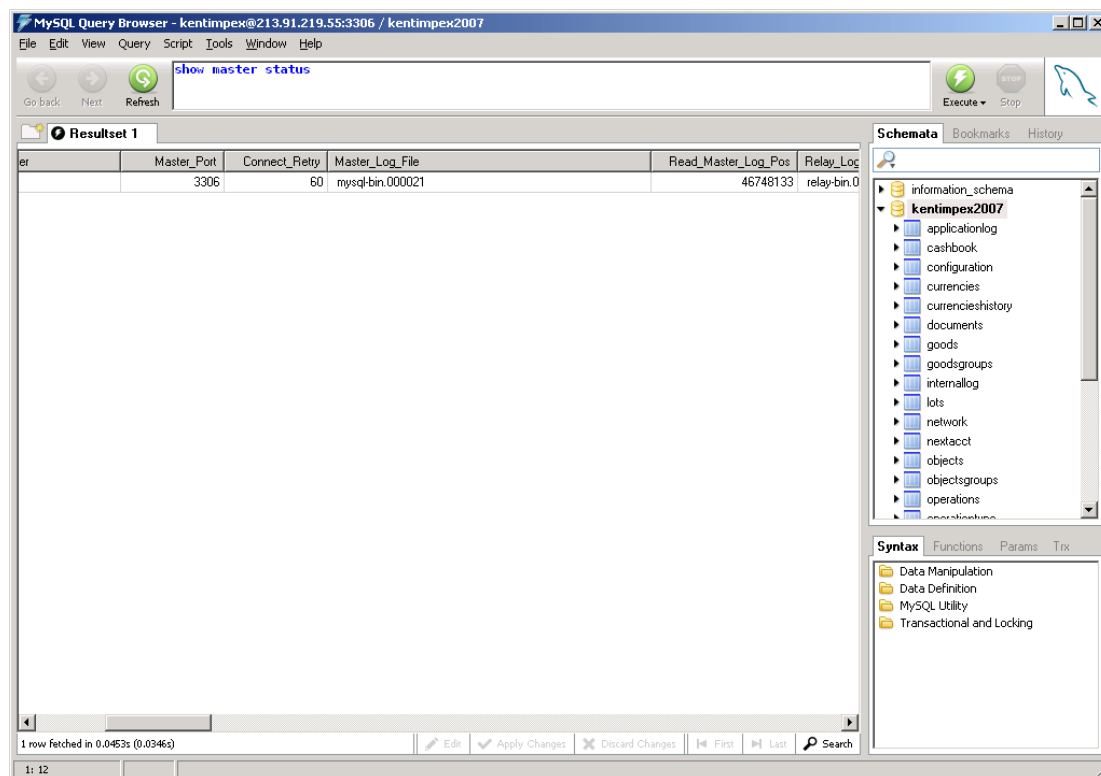
1. Создать базу данных для репликации;
2. В файле „my.ini”,находящемся в директории MySQL Server добавить раздел:
Replication
server-id=1
log-bin=mysql-bin
connect_timeout=60
skip-name-resolve

Примечание: server id для Master „1”

3. Перезапустить MySQL Server;
4. Создать Backup базы данных с помощью MySQL Administrator, чтобы создать затем базы данных для slave.

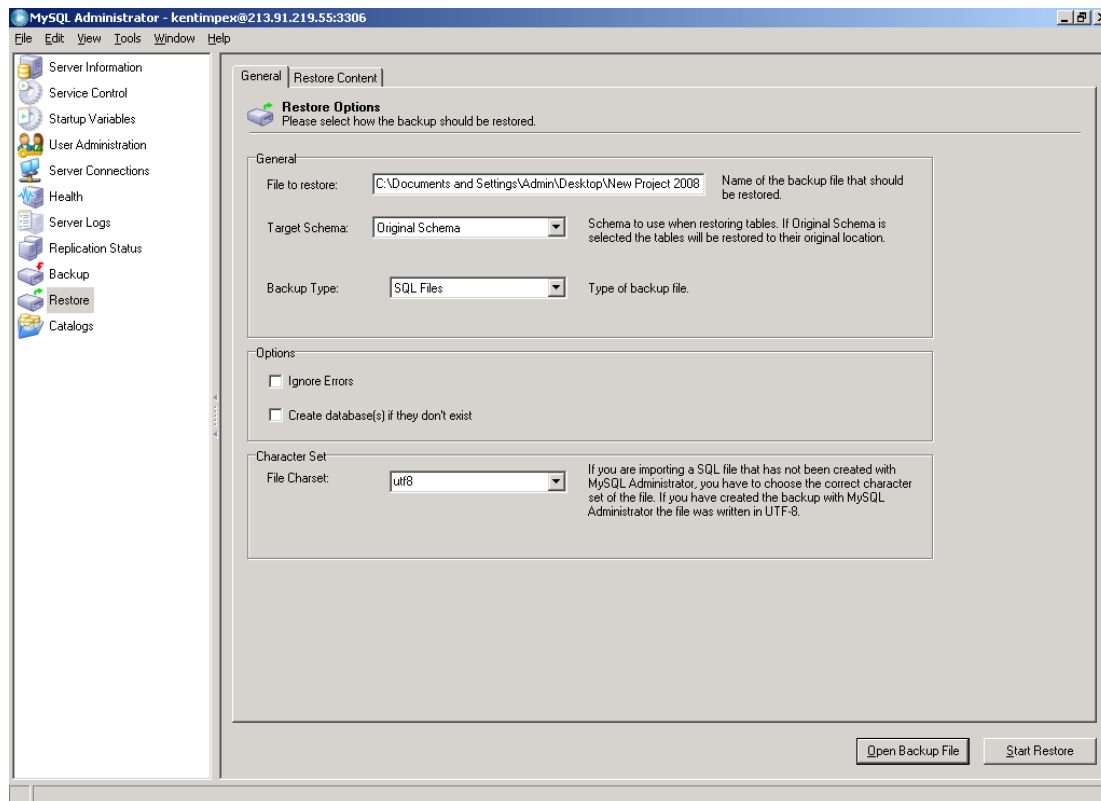


5. Выполнить команду „show master status” в MySQL Query Browser и записать log-файл и позицию.



Настройка Slave серверов:

1. Создать базу данных, выполнив Restore для Backup, созданного для Master;



2. В файле „my.ini”, находящемся на MySQL Server добавить раздел:
Replication
server-id=2
connect_timeout=60
skip-name-resolve
slave-skip-errors=all
relay-log=relay-bin
slave_net_timeout=10

Примечание: server id для slave идут по порядку и различаются для каждого Slave

3. Перезапустить MySQL Server;
4. В MySQL Query Browser выполнить команду:

```
CHANGE MASTER TO  
MASTER_HOST='master_host_name',  
MASTER_USER='replication_user_name',  
MASTER_PASSWORD='replication_password',  
MASTER_LOG_FILE='Logfile',  
MASTER_LOG_POS=Log pos;
```

5. В MySQL Query Browser выполнить команду: „start slave”
6. В MySQL Query Browser выполнить команду: „show slave status”, при правильно настроенной репликации в поле „Slave_IO_State” должно быть написано „Waiting for master to send event”, а поле „Seconds_Behind_Master” должно быть отлично от „Null”.

The image displays two screenshots of the MySQL Query Browser interface. The top screenshot shows the execution of the command 'show slave status'. The result set table is as follows:

Slave_IO_State	Master_Host	Master_User	Master_Port	Connect_Retry
Waiting for master to s...	microinvest.net	kentimpex	3306	60

The bottom screenshot shows the execution of the command 'show slave status'. The result set table is as follows:

Master_SSL_Cipher	Master_SSL_Key	Seconds_Behin...
		0

